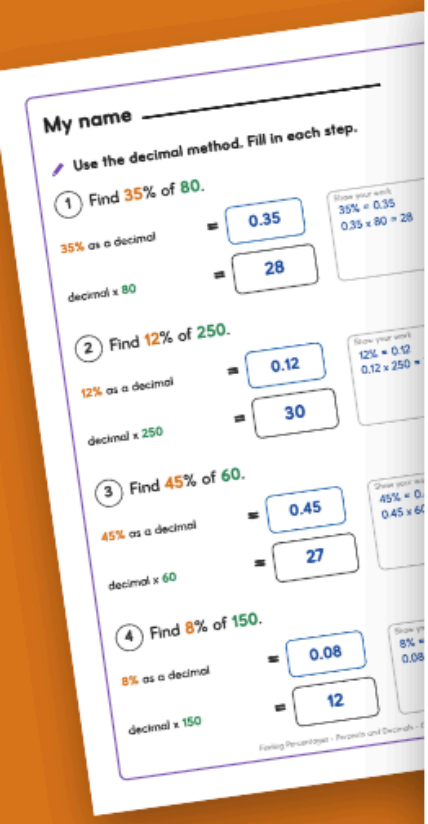
FINDING PERCENTAGES WORKSHEETS

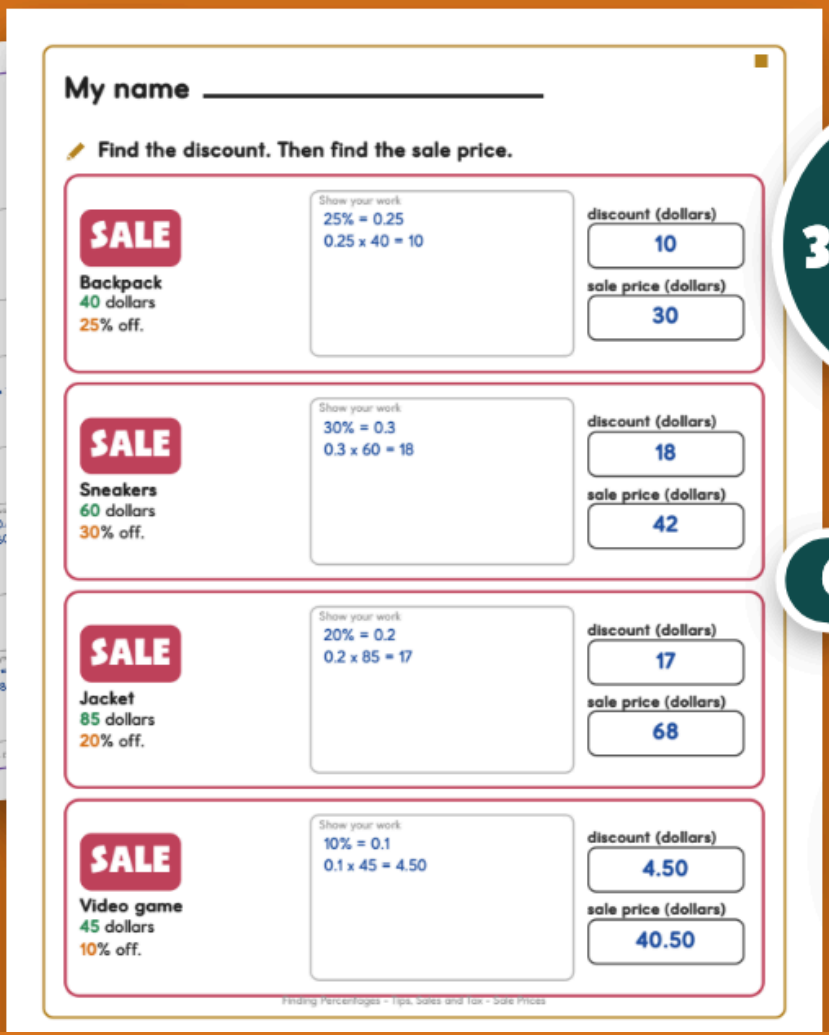
Percent of a Number


My name _____

Use the decimal method. Fill in each step.

1. Find 35% of 80.
   - 35% as a decimal = 0.35
   - decimal x 80 = 28
   - Show your work: 35% = 0.35, 0.35 x 80 = 28
2. Find 12% of 250.
   - 12% as a decimal = 0.12
   - decimal x 250 = 30
   - Show your work: 12% = 0.12, 0.12 x 250 =
3. Find 45% of 60.
   - 45% as a decimal = 0.45
   - decimal x 60 = 27
4. Find 8% of 150.
   - 8% as a decimal = 0.08
   - decimal x 150 = 12

Finding Percentages - Percents and Decimals


My name _____

Find the discount. Then find the sale price.

SALE
Backpack
40 dollars
25% off.
Show your work: 25% = 0.25, 0.25 x 40 = 10
discount (dollars): 10
sale price (dollars): 30

SALE
Sneakers
60 dollars
30% off.
Show your work: 30% = 0.3, 0.3 x 60 = 18
discount (dollars): 18
sale price (dollars): 42

SALE
Jacket
85 dollars
20% off.
Show your work: 20% = 0.2, 0.2 x 85 = 17
discount (dollars): 17
sale price (dollars): 68

SALE
Video game
45 dollars
10% off.
Show your work: 10% = 0.1, 0.1 x 45 = 4.50
discount (dollars): 4.50
sale price (dollars): 40.50

Finding Percentages - Tips, Sales and Tax - Sale Prices

36 PAGES

GRADES 6-8

%

Bright Path Sped

Terms of Use

Please read before you print your first page.

One classroom license

- This file is for one classroom: one teacher, one group of students.
- Please do not share it, post it online, or sell it.
- Extra licenses for a team or a school are available on the product page.

This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line and every answer box are type-in fields. The work space is for pencil on a printed page.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the boxes stay big enough to write in. Every page prints in color or in black and white. The colors only highlight the numbers; the words (percent, decimal, tip, total) stay beside the boxes, so a photocopied page reads the same.

Student work

A filled-in tracker carries a student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands. All names, prices and numbers in the word problems are invented.

Need help?

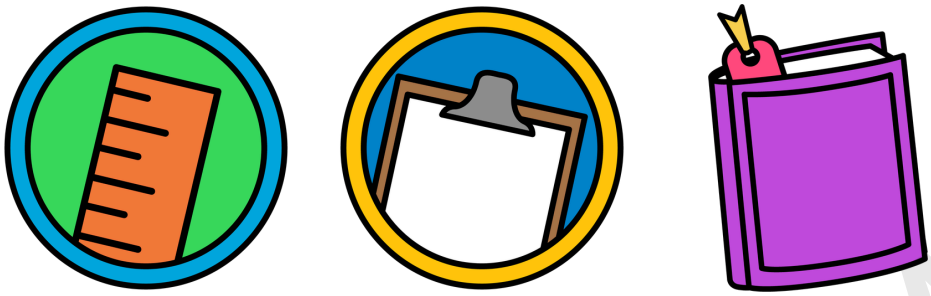
If a box will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

© Bright Path Sped. For single-classroom use by the original purchaser.

PREVIEW

Binder Cover and Spine

Slide this into the front of a binder or a folder. The spine strip is below it; the 4 divider tabs come before each section (pages 5, 10, 17, 23).



FINDING PERCENTAGES

percent of a number, tips and sales

Name _____

Class or group _____

School year _____

PREVIEW

Finding Percentages - Bright Path Sped

Spine strip: fold it around the spine of a one-inch binder, or tape it flat to a folder edge.

My name _____

Read the shortcuts. Then try them.

Six Ways to Find a Percent

10%
Divide by 10. Move the point 1 place left.
10% of 70 = 7

50%
Take half of the number.
50% of 90 = 45

25%
Half of half.
25% of 80 = 20

1%
Divide by 100. Move the point 2 places left.
1% of 300 = 3

5%
Half of 10%.
5% of 60 = 3

Any %
Make it a decimal. Multiply.
35% = 0.35
0.35 x 20 = 7

The decimal method in three steps

1. Write the percent as a decimal. Move the point 2 places left.
2. Multiply the decimal by the number.
3. Check it. 50% should be half of the number.

Your turn

1 10% of 90 = ____

2 50% of 36 = ____

3 25% of 60 = ____

4 5% of 80 = ____

PREVIEW

Preview · Bright Path Sped

My name _____

Find each percent. Write it in the box.

10% is the number divided by 10. Move the point 1 place left. **50%** is half of the number.

	10%	50%
of 20		
of 40		
of 60		
of 80		
of 120		
of 200		

PREVIEW

My name _____

Find each percent. Write it in the box.

1% is divided by 100. **5%** is half of 10%. **15%** is 10% plus 5%. **150%** is the number plus half of it.

	1%	5%	15%	150%
of 60				
of 120				
of 250				
of 300				
of 450				

PREVIEW

Preview · Bright Path Sped

My name _____

Change each one. Write the answer in the box.

Percent to decimal

Move the point 2 places **left**.
35% = 0.35

Decimal to percent

Move the point 2 places **right**.
0.35 = 35%

10% = ☐	0.3 = ☐ %
25% = ☐	0.6 = ☐ %
40% = ☐	0.8 = ☐ %
50% = ☐	0.2 = ☐ %
75% = ☐	0.45 = ☐ %
90% = ☐	0.35 = ☐ %

PREVIEW

Preview · Bright Path Sped

My name _____

Change each one. Write the answer in the box.

Percent to decimal

Move the point 2 places **left**.
35% = 0.35

Decimal to percent

Move the point 2 places **right**.
0.35 = 35%

150% = ☐	1.25 = ☐ %
6.5% = ☐	0.075 = ☐ %
0.5% = ☐	0.008 = ☐ %
12.5% = ☐	2.4 = ☐ %
225% = ☐	0.125 = ☐ %
4.25% = ☐	1.5 = ☐ %

PREVIEW

Preview · Bright Path Sped

My name _____

Use the decimal method. Fill in each step.

1 Find 35% of 80.

35% as a decimal = ☐

decimal x 80 = ☐

Show your work

2 Find 12% of 250.

12% as a decimal = ☐

decimal x 250 = ☐

Show your work

3 Find 45% of 60.

45% as a decimal = ☐

decimal x 60 = ☐

Show your work

4 Find 8% of 150.

8% as a decimal = ☐

decimal x 150 = ☐

Show your work

PREVIEW

Divider Tab 3 of 4

Slide this sheet in front of the pages in this section: 18 to 22.



WORD PROBLEMS

Find a percent of a number in a story.

Pages 18-22

PREVIEW

My name _____

Solve each problem. Show your work.

1. Mr. Ortiz drove 150 miles. 64% of the trip was on the highway. How many miles was that?

Show your work

Answer

_____ miles

2. A choir has 75 singers. 28% of them are sixth graders. How many sixth graders sing?

Show your work

Answer

_____ singers

3. A pool holds 2,000 gallons. It is 85% full. How many gallons are in the pool?

Show your work

Answer

_____ gallons

4. A garden has 120 plants. 15% of them are tomatoes. How many plants are tomatoes?

Show your work

Answer

_____ plants

PREVIEW

My name _____

Show what you know. Solve each one.

1 What is 10% of 350?

Show your work

Answer

2 A tank holds 86 liters. It is 50% full. How many liters are in the tank?

Show your work

Answer

liters

3 Find 25% of 120.

Show your work

Answer

4 A shirt costs 45 dollars. It is 20% off. How many dollars off?

Show your work

Answer

dollars

5 A class has 80 students. 15% are absent. How many are absent?

Show your work

Answer

students

PREVIEW

My name _____

Find each percent. Write it in the box.

10% is divided by 10. **20%** is 10% two times. **15%** is 10% plus half of 10%. Tips are in dollars.

	10% tip	15% tip	20% tip
bill: **20** dollars			
bill: **30** dollars			
bill: **40** dollars			
bill: **50** dollars			
bill: **60** dollars			

PREVIEW

My name _____

Find the discount. Then find the sale price.



Backpack
40 dollars
25% off.

Show your work

discount (dollars)

sale price (dollars)



Sneakers
60 dollars
30% off.

Show your work

discount (dollars)

sale price (dollars)



Jacket
85 dollars
20% off.

Show your work

discount (dollars)

sale price (dollars)



Video game
45 dollars
10% off.

Show your work

discount (dollars)

sale price (dollars)

PREVIEW

Answer Key 1

Money answers are in dollars. A box with more than one answer lists them in the order of the boxes.

Page 6: Percent Shortcuts and Steps

1) 10% of 90 = 9
2) 50% of 36 = 18
3) 25% of 60 = 15
4) 5% of 80 = 4

Page 7: Shortcut Strips, Set 1

Columns: 10%, 50%

1) of 20: 2, 10
2) of 40: 4, 20
3) of 60: 6, 30
4) of 80: 8, 40
5) of 120: 12, 60
6) of 200: 20, 100

Page 8: Shortcut Strips, Set 2

Columns: 10%, 25%, 50%

1) of 40: 4, 10, 20
2) of 80: 8, 20, 40
3) of 120: 12, 30, 60
4) of 160: 16, 40, 80
5) of 240: 24, 60, 120

Page 9: Shortcut Strips, Set 3

Columns: 1%, 5%, 15%, 150%

1) of 60: 0.6, 3, 9, 90
2) of 120: 1.2, 6, 18, 180
3) of 250: 2.5, 12.5, 37.5, 375
4) of 300: 3, 15, 45, 450
5) of 450: 4.5, 22.5, 67.5, 675

Page 11: Percents and Decimals, Set 1

Percent to decimal: 0.1, 0.25, 0.4, 0.5, 0.75, 0.9

Decimal to percent: 30%, 60%, 80%, 20%, 45%, 35%

Page 12: Percents and Decimals, Set 2

Percent to decimal: 0.05, 0.07, 0.12, 0.35, 0.64, 0.99

Decimal to percent: 8%, 27%, 53%, 70%, 95%, 1%

PREVIEW

Answer Key 3

Money answers are in dollars. A box with more than one answer lists them in the order of the boxes.

Page 20: Word Problems, Set 3

1) 96 miles
2) 21 singers
3) 1,700 gallons
4) 18 plants

Page 21: Word Problems, Set 4

1) 3.84 dollars
2) 100 members
3) 2.6 liters
4) 8 dollars

Page 22: My Check-Up

1) 35
2) 43 liters
3) 30
4) 9 dollars
5) 12 students

Page 24: Tip Table

Columns: 10%, 15%, 20%

1) bill 20 dollars: 2, 3, 4
2) bill 30 dollars: 3, 4.50, 6
3) bill 40 dollars: 4, 6, 8
4) bill 50 dollars: 5, 7.50, 10
5) bill 60 dollars: 6, 9, 12

Page 25: Tips

1) tip 6, total 46 dollars
2) tip 5, total 30 dollars
3) tip 3, total 33 dollars
4) tip 3.60, total 21.60 dollars

Page 26: Sale Prices

1) discount 10, sale price 30 dollars
2) discount 18, sale price 42 dollars
3) discount 17, sale price 68 dollars
4) discount 4.50, sale price 40.50 dollars

PREVIEW

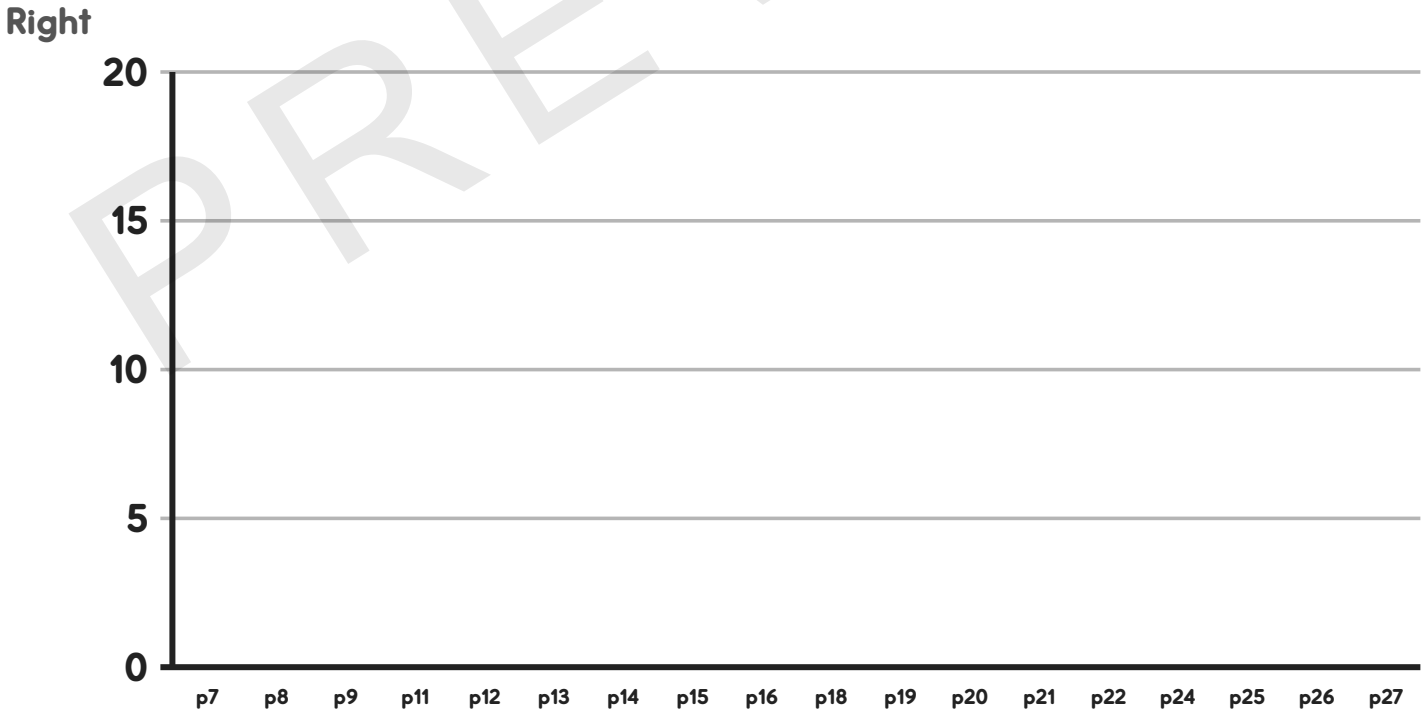
Tracker and Roll-Up

Write the date and how many were right. Then color the bar for that sheet. A blank row means not done yet, never wrong.

Student _____ Teacher _____ School year _____

Page	Sheet	Date	Right	Out of	Notes
7	Shortcut Strips, Set 1			12	
8	Shortcut Strips, Set 2			15	
9	Shortcut Strips, Set 3			20	
11	Percents and Decimals, Set 1			12	
12	Percents and Decimals, Set 2			12	
13	Percents and Decimals, Set 3			12	
14	Decimal Method, Set 1			4	
15	Decimal Method, Set 2			4	
16	Decimal Method, Set 3			4	
18	Word Problems, Set 1			4	
19	Word Problems, Set 2			4	
20	Word Problems, Set 3			4	
21	Word Problems, Set 4			4	
22	My Check-Up			5	
24	Tip Table			15	
25	Tips			8	
26	Sale Prices			8	
27	Sales Tax			8	

Roll-up: color one bar for each sheet, up to the number right



Notes for the team

PREVIEW

Percents at Home

Send this page home with a student, or hand it to a family at a conference.

Student _____ Week of _____

How to help at home, in three steps

- Look around for a percent: a sale sign, a tip line, a battery, a quiz score.
- Try a shortcut: 10% is the number divided by 10. 50% is half. 25% is half of half.
- Check together: a 20% discount should be less than half of the price.

Try one together (invented numbers)

The sign says 20% off a jacket that costs 40 dollars. How many dollars off?

Show your work

dollars off ____

Try saying

- "Is your answer smaller or bigger than the number? Does that make sense?"
- "Can you get there with 10% first?"

Note from the teacher

Note from home

PREVIEW